

**LUBRICATION  
ORDER**

**L010-3530-203-10-2**

**20 OCTOBER 1965**

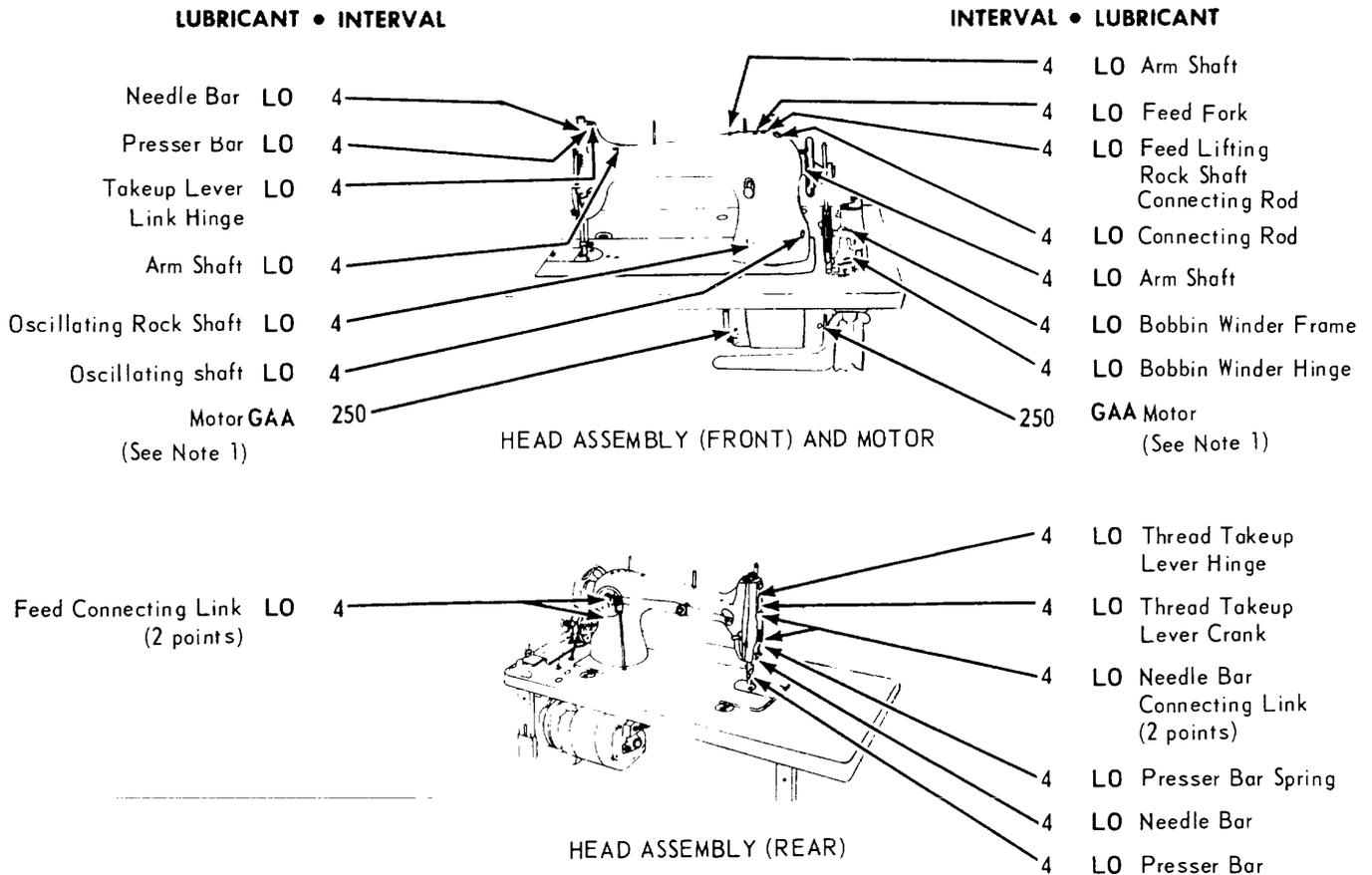
**CLOTHING, REPAIR SHOP, TRAILER MTD, ARMY MODEL SPV34,  
YORK ASTRO MODEL D8700337, TEXTILE REPAIR SHOP,  
TRAILER MTD, ARMY MODEL SPV35, YORK ASTRO  
MODEL D8700447, MACHINE, SEWING, CLOTHING,  
SINGER MODEL 31-15**

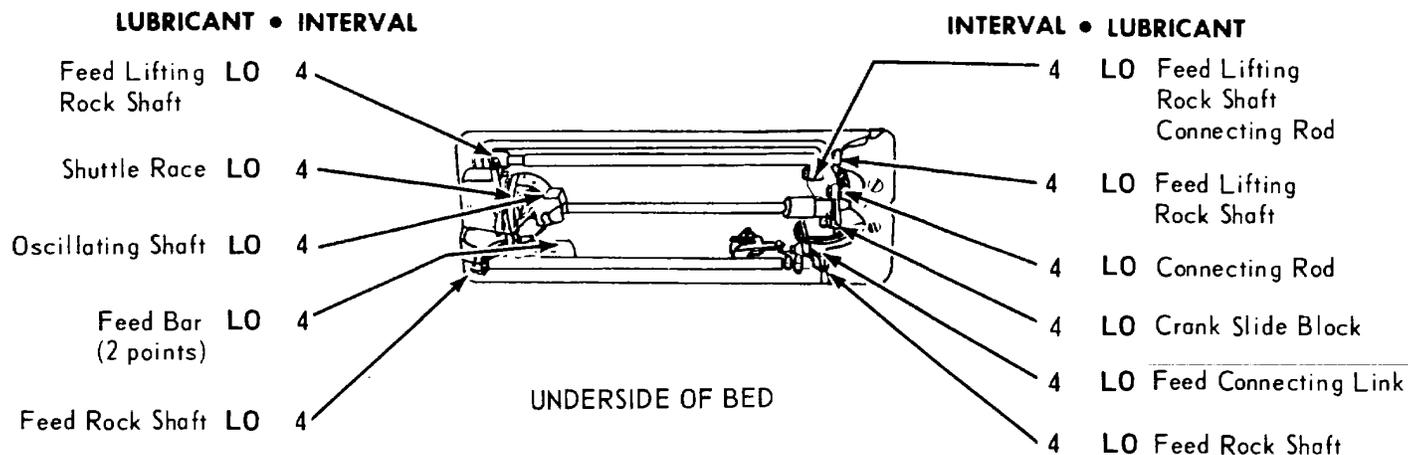
**Reference: LO 10-3530-203-10-1 and 3, C9100-IL**

Intervals are based on normal hours of operation. Reduce to compensate for abnormal operation and severe conditions. During inactive periods, sufficient lubrication must be performed for adequate preservation.

Clean parts with SOLVENT dry-cleaning. Dry before lubricating.

Apply two to three drops of LO at each friction point unless otherwise noted.





LUBRICANTS	EXPECTED TEMPERATURES	INTERVALS
<b>LO</b> - Lubricating Oil, General Purpose	all temperatures	Intervals given are hours of normal operation.
<b>GAA</b> -Grease, Automotive and Artillery	all temperatures	

**NOTES:**

1. **MOTOR.** Lubricate oil points with two or three drops of LO every 4 hours. Fill grease cups as necessary with GAA grease. Turn grease cup clockwise three turns every 250 hours.

A copy of the Lubrication Order will remain with the equipment at all times; instructions contained herein are mandatory.

BY ORDER OF THE SECRETARY OF THE ARMY:

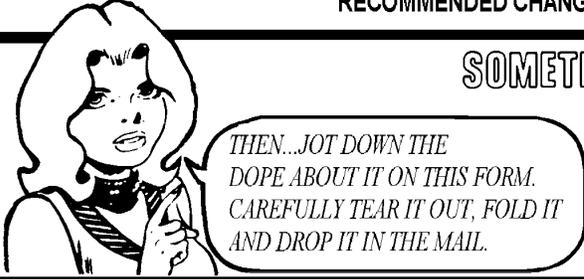
HAROLD K. JOHNSON,  
General, United States Army  
Chief of Staff.

OFFICIAL:

J. C. LAMBERT,  
Major General, United States Army,  
The Adjutant General.

LO 10-3530-203-10-2 DISTRIBUTION: Active Army: USASA (1); DCSLOC (1); CNGB (1); CAR (1); USAMC (12); USACDCEC (10); USAMOCOM (2); USAWECOM (S); USAMICOM (15); USAMUCOM (5); USAECOM (5); USATECOM (5); USASMC (11); USCONARC (2); CofEngrs (6); CofSptS (1); Dlr of Trans (1); CC-E (1); ARADCOM (2); ARADCOM (2); OS Maj Comd (3); LOGCOMD (1); MDW (1); Armies (5); NLABS (4); USASPTCP (10); USAMEC (46); Svc CollGges (2); Br Svc Sch (2) except USAOMS (10); USAOMTC (4); Mbl Equip Man Fid Ofc Ft Lee} 121; USMA (1); A Dep (4); POE (2); USA Tml Comds (2); Army Tml (2); Arsenals (2); PG (2); Instl (2); QM Fld Maint Shops (2); Ft Knox Fld Maint Shops (10). Units org under fol TOE: (2 copies each); 10-105, 10-107, 10-445, 10-444, 10-500, 29-114, 29-124 and 29-206. NG: State AG (3). USAR: Same as Active Army except allowance is one copy to each unit. For explanation of abbreviations used, see AR 320-50.

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

<h2 style="margin: 0;">SOMETHING WRONG WITH PUBLICATION</h2>			
 <p style="margin: 0;"><i>THEN...JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.</i></p>		FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)	
		DATE SENT	
PUBLICATION NUMBER		PUBLICATION DATE	PUBLICATION TITLE
<b>BE EXACT PIN-POINT WHERE IT IS</b>			
PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.
IN THIS SPACE, TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT.			
PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER			SIGN HERE

## The Metric System and Equivalents

### Linear Measure

1 centimeter = 10 millimeters = .39 inch  
 1 decimeter = 10 centimeters = 3.94 inches  
 1 meter = 10 decimeters = 39.37 inches  
 1 dekameter = 10 meters = 32.8 feet  
 1 hectometer = 10 dekameters = 328.08 feet  
 1 kilometer = 10 hectometers = 3,280.8 feet

### Weights

1 centigram = 10 milligrams = .15 grain  
 1 decigram = 10 centigrams = 1.54 grains  
 1 gram = 10 decigrams = .035 ounce  
 1 decagram = 10 grams = .35 ounce  
 1 hectogram = 10 decagrams = 3.52 ounces  
 1 kilogram = 10 hectograms = 2.2 pounds  
 1 quintal = 100 kilograms = 220.46 pounds  
 1 metric ton = 10 quintals = 1.1 short tons

### Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce  
 1 deciliter = 10 centiliters = 3.38 fl. ounces  
 1 liter = 10 deciliters = 33.81 fl. ounces  
 1 dekaliter = 10 liters = 2.64 gallons  
 1 hectoliter = 10 dekaliters = 26.42 gallons  
 1 kiloliter = 10 hectoliters = 264.18 gallons

### Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch  
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches  
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet  
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet  
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres  
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

### Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch  
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches  
 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

## Approximate Conversion Factors

<i>To change</i>	<i>To</i>	<i>Multiply by</i>	<i>To change</i>	<i>To</i>	<i>Multiply by</i>
inches	centimeters	2.540	ounce-inches	Newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	Newton-meters	1.356	metric tons	short tons	1.102
pound-inches	Newton-meters	.11296			

## Temperature (Exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C
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